

CLAIMS

What is claimed is:

1. A server, comprising:
 2. a circuit board comprising a first electrical connector disposed on a first side of the circuit board and a second electrical connector disposed on a second side of the circuit board opposite the first side of the circuit board;
 5. a chassis having at least one of a front opening and a rear opening;
 6. a board holder operable to receive the circuit board and provide access to the first electrical connector and the second electrical connector, wherein the board holder is operable to be pivoted relative to the chassis to enable the circuit board to be disposed within the board holder via the at least one of the front opening and the rear opening; and
 10. a securing member operable to selectively secure pivotal movement of the circuit board relative to the chassis.
1. 2. The server as recited in claim 1, wherein the securing member is operable to secure the circuit board in a vertical position.
1. 3. The server as recited in claim 2, wherein the securing member is operable to release the pivotal board holder to enable the circuit board to be pivoted toward a horizontal position.
1. 4. The server as recited in claim 1, wherein the board holder is fully disposed within the chassis during operation.
1. 5. The server as recited in claim 1, wherein the circuit board is coupled to a component external to the board holder on one of the first side of the circuit board and the second side of the circuit board.

1 6. The server as recited in claim 1, comprising a processor assembly
2 connectable to the first electrical connector.

1 7. The server as recited in claim 1, comprising an input/output device
2 connectable to the second electrical connector.

1 8. The server as recited in claim 1, wherein the circuit board comprises a
2 third electrical connector disposed on the first side of the circuit board, and wherein the
3 server comprises a memory storage device connectable to the third electrical connector.

1 9. A method of coupling a circuit board to a chassis of a server, comprising:
2 inserting the circuit board into the circuit board holder through a side of the
3 server;

4 rotating the circuit board holder into a first position such that the circuit board is
5 coupleable to an electrical component on each of a first side of the circuit board and a
6 second side of the circuit board opposite the first side of the circuit board; and
7 engaging the circuit board holder securing device to secure the circuit board and
8 the circuit board holder in the first position.

1 10. The method as recited in claim 9, comprising connecting at least one
2 component to an electrical connector disposed on one of the first side of the circuit board
3 and the second side of the circuit board.

1 11. The method as recited in claim 9, comprising:
2 operating a circuit board holder securing device to release a circuit board holder
3 for pivoting relative to the chassis; and
4 pivoting the circuit board holder from a first position to a second position.

1 12. The method as recited in claim 10, wherein connecting at least one
2 component connected to an electrical connector disposed on one of the first side of the

3 circuit board and the second side of the circuit board comprises connecting a data storage
4 assembly to the circuit board.

1 13. The method as recited in claim 11, wherein pivoting the circuit board
2 holder comprises pivoting the circuit board holder toward a front side of the server.

1 14. The method as recited in claim 13, wherein inserting the circuit board into
2 the circuit board holder through the side of the server comprises inserting the circuit
3 board through the front side of the server.

1 15. The method as recited in claim 11, wherein pivoting the circuit board
2 holder comprises pivoting the circuit board holder toward a rear side of the server.

1 16. The method as recited in claim 15, wherein inserting the circuit board into
2 the circuit board holder through the side of the server comprises inserting the circuit
3 board through the rear side of the server.

1 17. A server, comprising:
2 means for pivoting a circuit board holder relative to a server chassis;
3 means for selectively securing the circuit board holder in a first position relative
4 to the server chassis; and
5 means for coupling at least one electronic component to each of a first side of the
6 circuit board and a second side of the circuit board, opposite the first side of the circuit
7 board, through an aperture in the circuit board holder when the circuit board holder is in
8 the first position relative to the server chassis.

1 18. The server as recited in claim 17, comprising means for operating a circuit
2 board holder securing device to release the circuit board holder for pivoting relative to the
3 server chassis.

1 19. The server as recited in claim 17, comprising means for removing a circuit
2 board from the circuit board holder when the circuit board holder is pivoted to a second
3 position relative to the server chassis.

1 20. The server as recited in claim 17, comprising means for connecting a
2 memory storage device to the first side of the circuit board and the second side of the
3 circuit board when the circuit board holder is secured in the first position relative to the
4 server chassis.